# Agility Through Network Automation
## IT at the speed of business

Cuong Le Sy

CIO – USDC Technology

**vm**ware®    USDC TECHNOLOGY Smart Data Center

# Business Demands
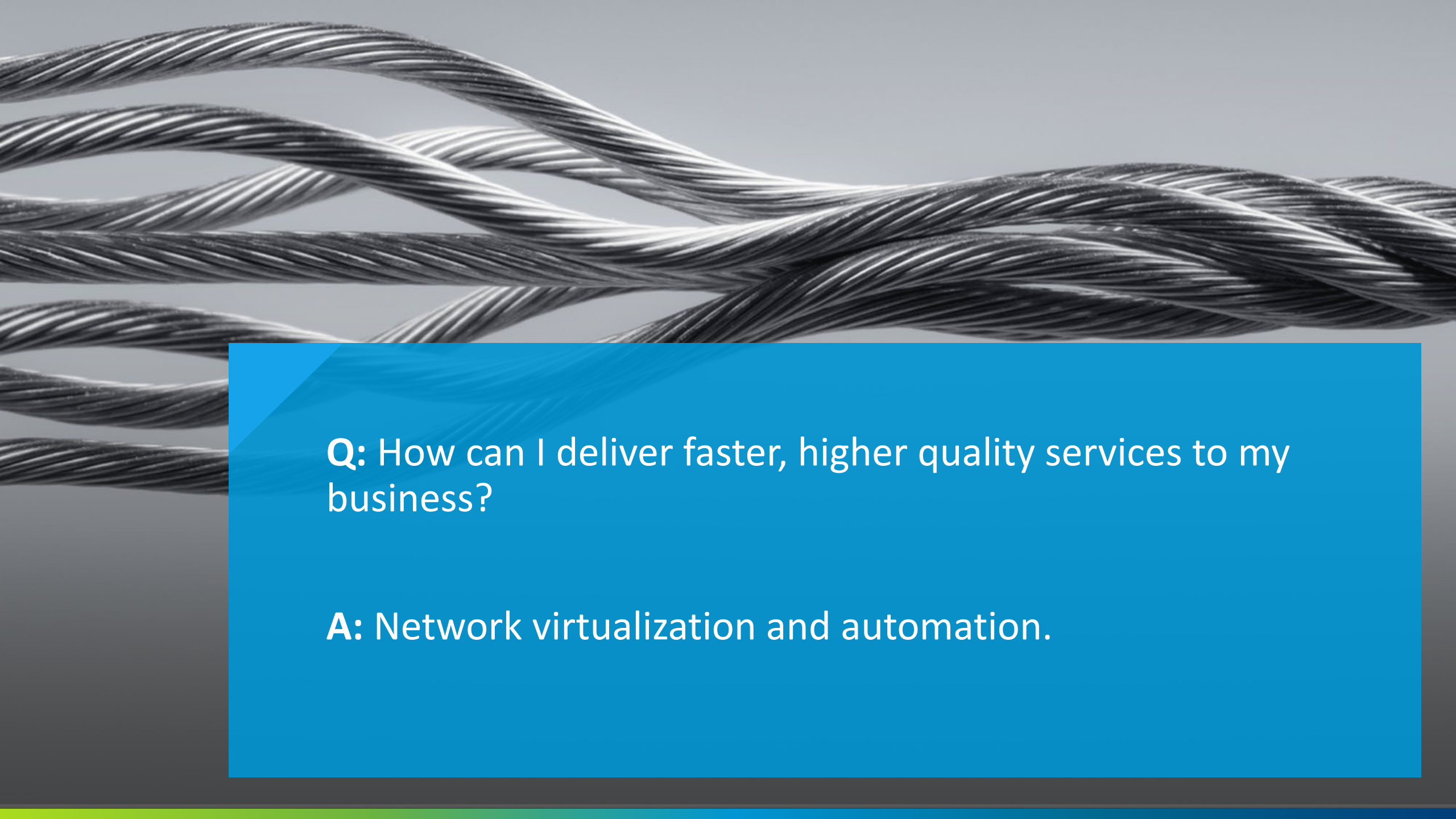
⊕ Roll out new applications to market faster

⊕ Respond quickly to new customer demands

⊕ Innovate with new technology to out compete competitors

# What IT Needs to Deliver

⊕ IT automation to support agile application development process

⊕ Ensure security and compliance

⊕ Better utilization of IT resources for more strategic projects

"Configuration and change management of networking gear remains primarily a labor-intensive, manual process... These suboptimal network practices result in downtime, reduce security, degrade application performance, and waste human and capital resources."

**Andrew Lerner**
Research Director
Gartner

**Q:** How can I deliver faster, higher quality services to my business?

**A:** Network virtualization and automation.

# What's getting in the way...

of allowing business to deliver applications faster, more securely and more efficiently?

Limited visibility

Complex physical networking infrastructure

Manual provisioning processes

# Plan + Virtualize + Automate

**Plan** with complete visibility

**Virtualize** infrastructure and security controls

**Automate**, standardize processes

Limited visibility

Complex physical infrastructure
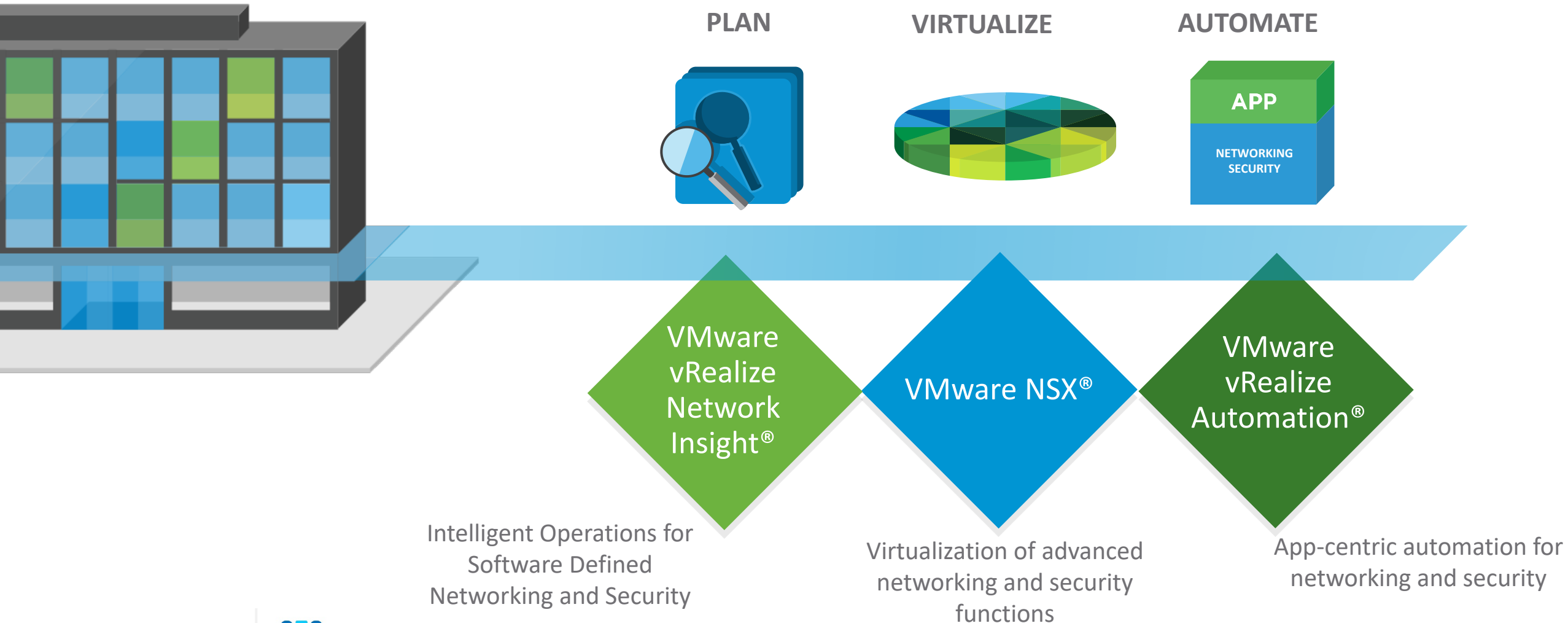
Manual processes

# Customer Journey to Network Automation

End-to-end automation enables IT to deliver secure application services quickly!

**PLAN**

**VIRTUALIZE**

**AUTOMATE**

APP

NETWORKING
SECURITY

VMware vRealize Network Insight®

VMware NSX®

VMware vRealize Automation®

Intelligent Operations for Software Defined Networking and Security

Virtualization of advanced networking and security functions

App-centric automation for networking and security
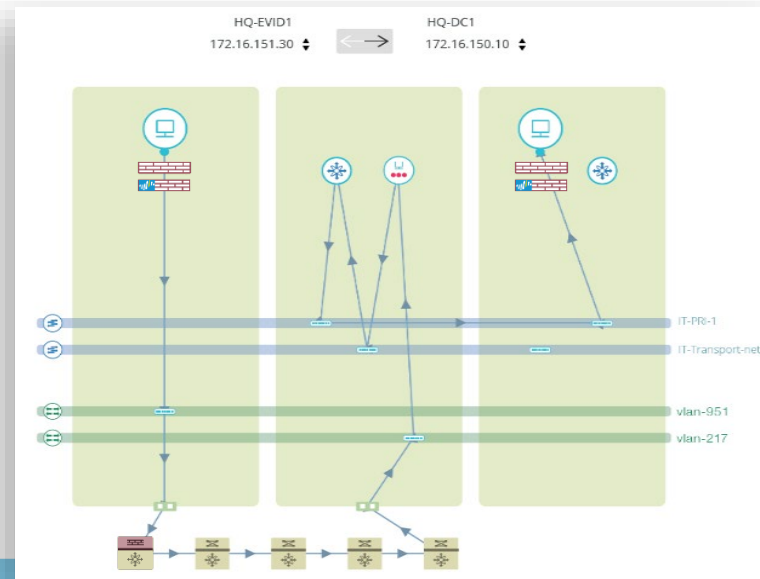
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# Visibility, Insight, & Planning with vRealize Network Insight
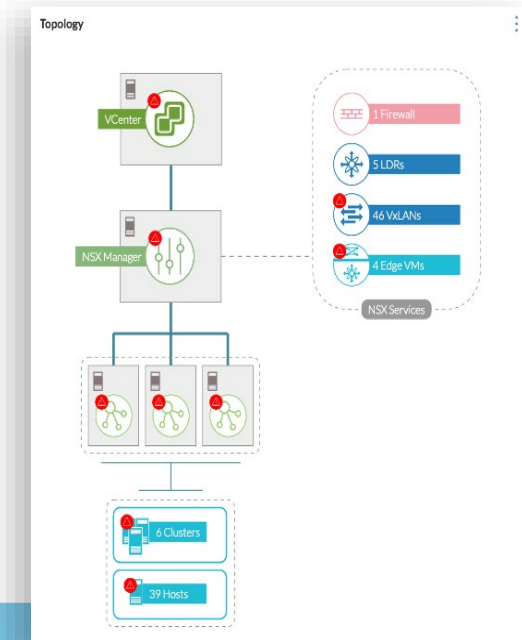
## Plan Network Virtualization
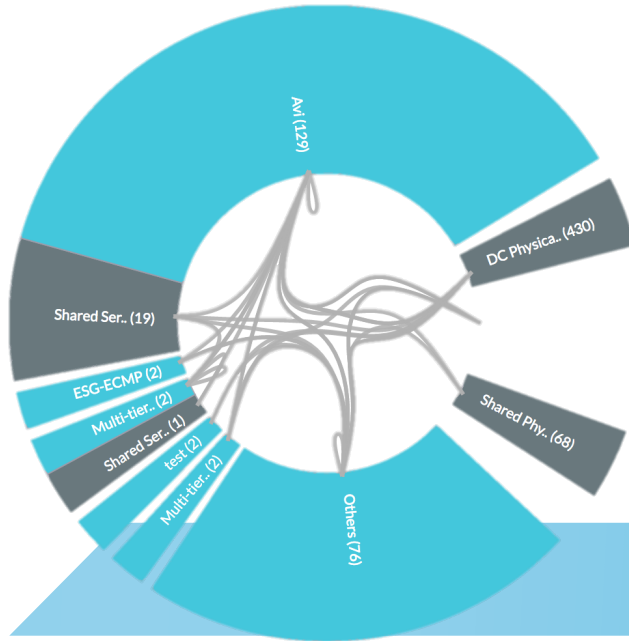


Get *application-level flow visibility* and analytics
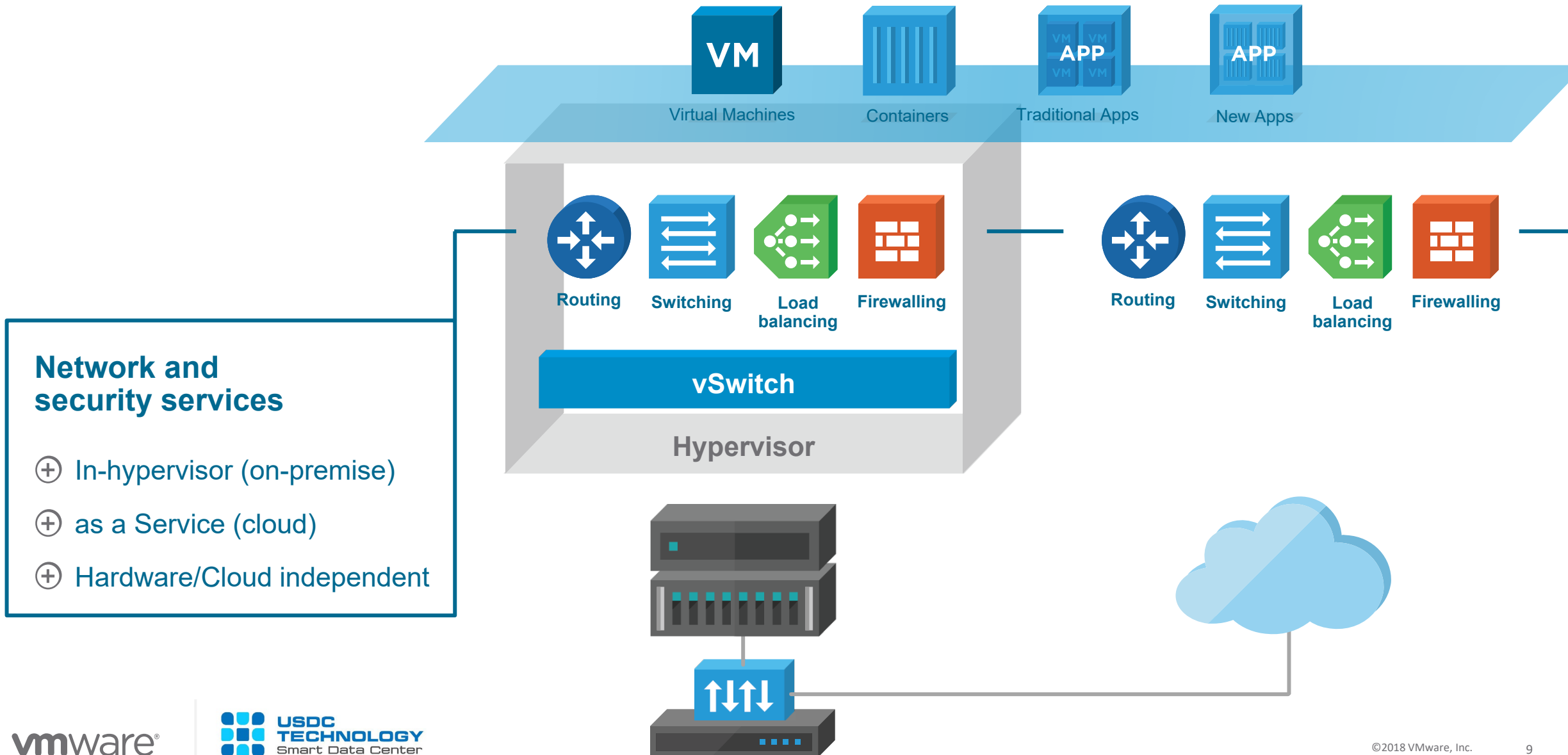
## Troubleshoot Virtual and Physical



Unify *troubleshooting across the virtual and physical* elements of your infrastructure
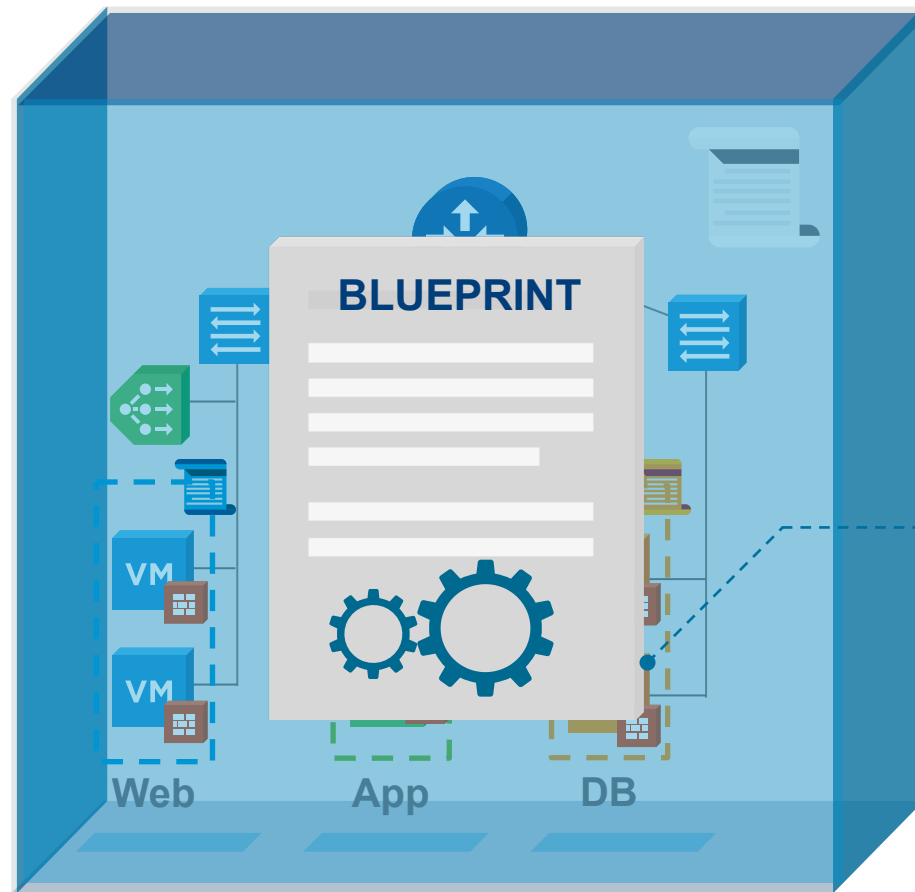
## Manage and Scale NSX



*Scale* across NSX Managers, **ensure compliance** and *avoid* common *misconfiguration* issues

# Networking and Security Virtualization with NSX

**Virtual Machines**

**Containers**

**Traditional Apps**

**New Apps**

Routing  Switching  Load balancing  Firewalling

**vSwitch**

**Hypervisor**

Routing  Switching  Load balancing  Firewalling

**Network and security services**

⊕ In-hypervisor (on-premise)

⊕ as a Service (cloud)

⊕ Hardware/Cloud independent

**vmware**®
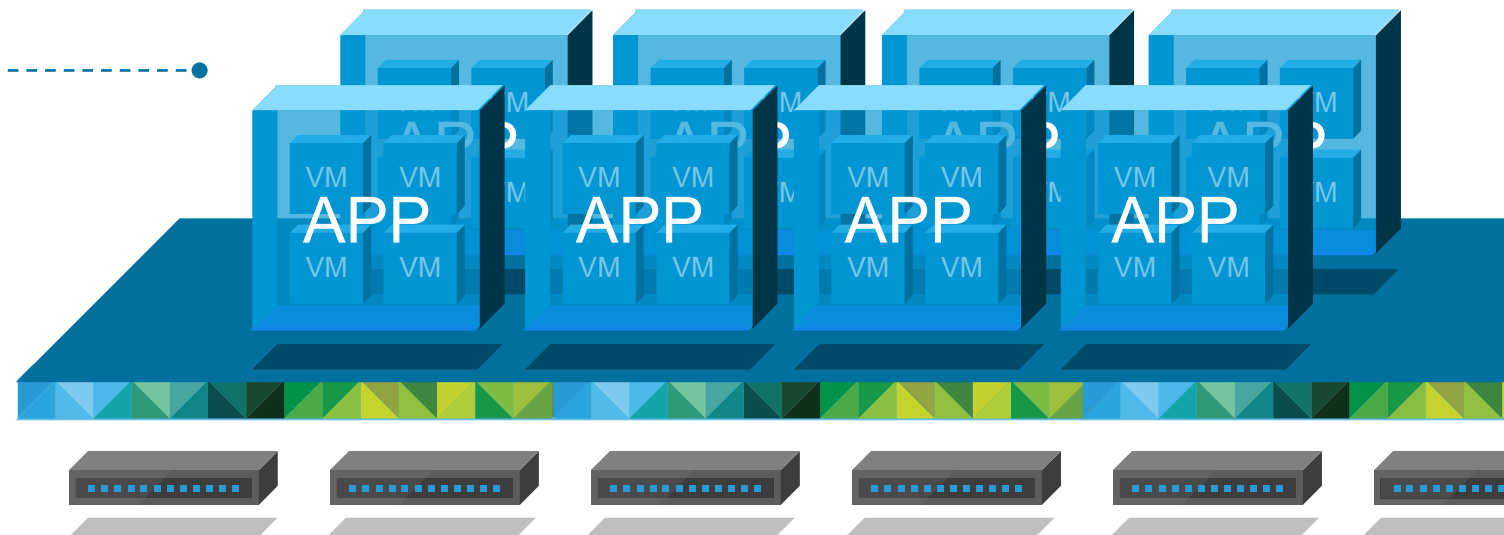
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# Automate with vRealize Automation



**Fast and repeatable service provisioning and deployments**

- App-centric networking and security automation

- API and catalog driven self-service experience

- Embedded policy-based governance

- Complete lifecycle automaton and management

# Ready to Take the Next Step?

## Contact us today to learn more.

USDC TECHNOLOGY JSC

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Our Values

"USDC Technology is a leading IT Integration and Consulting company. Our mission is to provide our clients with the right combination of information technology and people to deliver innovative solutions that create a competitive advantage for their organization."

# Thank you!